

DELAWARE NUTRIENT
MANAGEMENT PROGRAM

DELAWARE CONSERVATION
PRACTICE STANDARD

**STORMWATER MANAGEMENT
FOR NEW SOURCE LARGE CAFOs**

(Reported by [Acre, Feet, or Number])

CONSIDERATIONS

Site New Source CAFO production areas considering the following:

1. Soils – Construct production areas in soils that are suitable for the use. Poorly drained soils are not appropriate for construction of New Source CAFO production areas.
2. Wetlands – Construct production areas outside of regulated and non-regulated wetlands. Maintain existing wetlands as an effective filtering practice for runoff from production areas.
3. Floodplains – Construct production areas outside of the 100-year flood plain to prevent contact of runoff in the floodplain with production area contaminants.
4. Tax Ditch rights-of-way – Construct production areas outside of established tax ditch rights-of-way to prevent interruption of maintenance activities on the tax ditch. For up to date information on Tax Ditch Rights of Way call 302-855-1955.
5. Utility easement – Construct production areas outside of utility easements to prevent interruption of maintenance of the easement. Contact Miss Utility by calling 1-800-282-8555 prior to construction to have existing utility lines marked.
6. Property lines – Construct production areas considering the local property line set-back requirements.
7. Water bodies – Construct production areas with a minimum setback from water bodies consistent with the application area setback requirements.

DEFINITION

Stormwater management is a system of vegetative, structural, or other measures that controls adverse effects on water quality that may be caused by new source Large CAFOs.

PURPOSES

The purposes of stormwater management for new source Large CAFOs are as follows:

1. To manage runoff from impervious and compacted surfaces such as roofs, concrete pads, and access roads within the production area to prevent erosion and minimize downstream impacts.
2. To prevent a discharge of sediment, nutrients, manure, litter or process wastewater pollutants from the production area.

**CONDITIONS WHERE PRACTICE
APPLIES**

Stormwater Management for New Source CAFOs applies to the management of the runoff from the production area of a CAFO that is defined as a “New Source” handling dry manure.

CRITERIA

1. Reduce the volume of stormwater runoff generated from the production area by minimizing impervious, compacted, and disturbed areas to the maximum extent practicable and by constructing an ephemeral wetland forebay and optional detention basin based upon stormwater storage requirement tables in the Poultry House Construction Standard Plan.
2. Minimize exposure of manure, litter or process wastewater to stormwater runoff by:
 - a. Timing cleanout of litter and manure from the confinement area to avoid rain events,
 - b. Handling manure and litter under roof when practical,
 - c. Preventing spillage of litter and manure, and
 - d. Cleaning up any spilled litter and manure as soon as practical.
3. Maintain all areas except those under roof or in access roadways in accordance with the Critical Area Planting standard, NRCS Code 342.
4. Construct Access Roads in accordance with NRCS Code 560 to better manage the movement of vehicles to control erosion and sedimentation.
5. Divert clean stormwater runoff away from the production area before that runoff comes into contact with any contaminated surface within the production area.
6. Store manure, litter, and and/or process wastewater in accordance with NRCS Code 313 Waste Storage Facility.

PLANS AND SPECIFICATIONS

Stormwater management plans and specifications for new source CAFOs shall be designed, engineered and calculated by a qualified individual of NRCS, the local

Conservation District, or private individual. A plan shall be developed with all appropriate details necessary to ensure successful construction of the stormwater management system for the new source Large CAFO.

OPERATION AND MAINTENANCE

An operation and maintenance plan for new source CAFO stormwater management BMPs will be developed by the individual designing the plan. The operation and maintenance plan shall be specific to the BMPs that have been implemented. The operation and maintenance plan shall be provided to and reviewed with the CAFO permittee.

REFERENCES

1. Delaware Sediment and Stormwater Technical Document 3.01.1.4b Poultry House Construction Standard Plan
2. NRCS Code 342 Critical Area Planting
3. NRCS Code 560 Access Road
4. NRCS Code 313 Waste Storage Facility